

196 - Test 5		A	B	C
1	CHAP 31 6 points <i>Using words, diagrams and equations</i>	Explain figure 31.18. It's on my website, too! You will need the diagram and graphs!	Show and explain an application of Faraday's Law. The Guitar. The GFCI. An electric motor or generator. A speaker or microphone.	Using fig. 31.10 derive and explain eq. 31.5.
2	CHAP 32 <i>You Choose</i> 6 points <i>Using words, diagrams and equations</i>	Using figure 32.6, derive and explain eqs. 32.7-10.	Using figure 32.2, explain and derive eq. 32.1. What is Inductance?	Explain the total energy in the circuit in fig. 32.16. using fig. 32.17 and eqs. 32.18,19,20,22,25.
3	CHAP 31 4 points You need to show reasoning	Quick Quiz #9	Quick Quiz #10	Quick Quiz #4
4	CHAP 31 4 points You need to show reasoning	Quick Quiz #6	Quick Quiz #3	Quick Quiz #2
5	CHAP 32 4 points You need to show reasoning	Quick Quiz #2	Quick Quiz #1	Quick Quiz #7
6	CHAP 31 4 points You need to show some work	Problem #28	Problem #28	Problem #28
7	CHAP 31 4 points You need to show some work	Problem #21	Problem #32	Problem 29
8	CHAP 32 4 points You need to show some work	Problem #22	Problem #6	Problem #14
9	CHAP 31/32 24 points DRS	Ch 31 #52	Ch 31 #66	Ch 32 #71

**Test Date – Tuesday 4/22/08 at 9:30 pm**

You will **randomly** receive one of three versions of the test above. You cannot have any notes. There are two questions (1 and 2) that require you to write a complete and concise explanation along with an appropriate diagram and mathematical logic (equations). Practice these questions. Write your answer out. Do not use paragraphs. Use bullets or steps. Pretend that you are to provide an explanation to the class.

There are 3 multiple-choice questions which require a correct and **brief explanation** as to why you chose your answer. There are also 3 basic problems that require you to show some of your work. These are not easy or simple problems. Basic means that you are capable and prepared to solve these problems.

Problem 9 requires that you show a complete diagram, clear reasoning and a correct solution. Practice drawing your diagram. Diagrams are important. They demonstrate your knowledge and understanding of the problem. They are not for show. I will start this test at 12:30 pm. You will have 75 minutes. **NO programmable calculators.** No books or notes.